

We will limit ourselves to the risk of forest fires for which we tried to show through two periments dertaken in the est of Algeria the S combined with ta from the erian micro Ilite ALSAT1, re effective nanagement tools nd in constant

THE RISK OF FOREST FIRES 134.044







INTRODUCTION

In Algeria, for a total surface of 2.4 millions square km, in orest does not ore than over mor .790.000 which represents less than 1%.

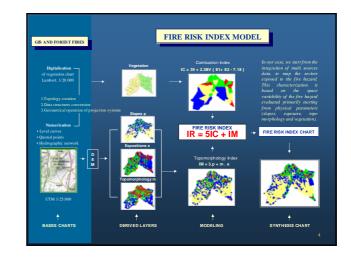
Algeria pays a heavy tribute considered by specialists as the part of fire. More than 30.000 hectares are destroyed on average each year and it is impossible to remain indifferent facing what is being undergone by the plant cover that threatens the ecological balance.

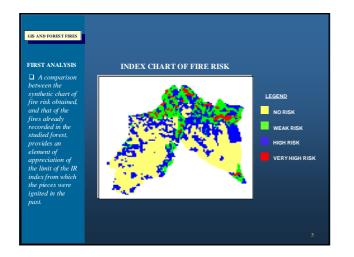
THE PART OF FIRE

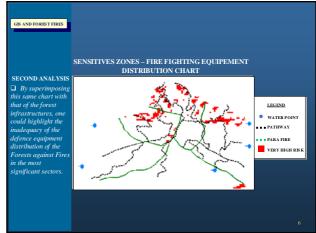
follows

the demographic growth,

the intensive grazing and fires.







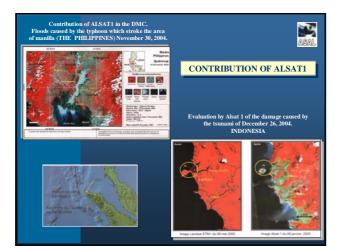
IMPACTS	
This study, has as main objectives :	To provide a cartography which constitutes an essential precondition to a policy reasoned as regards urbanization in forest.
	To help with better specifying the priorities of establishment or maintenance of the infrastructures, and thus a better definition of the maintenance and investment plans.
	7

The Algerian satellite Alsat-1 is a member of a constellation of micro satellites of 7 countries (Algeria, China, Nigeria, United Kingdom, Thailand, Turkey, nam). It is rithin an Iternational Itergramme of h observa for disasters mitigation and management (DMC - Disaste Monitoring Constellation).

SATELLITES FOR THE ENVIRONMENT

1

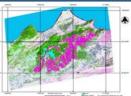
AlSat-1 Algerian micro satellite ALSAT 1 Design life 5 years (nominal) Lunch 28 November 2002 @ 6h50 Orbit Circular (heliosynchrone) Altitude 686km nominal Inclination 98.23° Mission Earth Imaging Bystem Imaging mode Push-broom Multispectral imager2 banks overlapping @ 5% Spectral band NIR, Rod, Green Swath width 600km Number of Prizel 10200 Resolution 32m Max Image size 600x560km ore Memory SSDR 2 x 512 MB SDRAM. SAI 100 (redundancy) 128 MB SDRAM ging S Tra



REMOTE SENSING AND FOREST FIRES

Very great repetitivity of satellite passes on the same zone, and the capacities of programming of the satellite ensure of the homogeneous imaging on very large territories. The information thus extracted from the satellite images will enrich the data bases considerably feeding the GIS, by reducing the long ones and expensive campaigns ground surveys. To ensure a good prevention policy of forest fires, the follow-up in the time of the evolutions of the land occupation makes it possible to include/anderstand and manage the environmental modifications.





The Alsat1 images can also bring lightings on the evaluation and the analysis after a fire : the cartography of the zones burned as well as very precise statistics on the most affected zones.



